

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/16137

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B21B45/08 B05B1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B21B B05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KUNZMANN G: "HYDRAULIC SCALE REMOVAL FROM HOT-ROLLED METAL" STEEL IN TRANSLATION, THE INSTITUTE OF MATERIALS, LONDON, GB, vol. 31, no. 8, 2001, pages 56-59, XP001144128 ISSN: 0967-0912 the whole document	1-11
A	EP 0 792 692 A (KYORITSU GOKIN MFG) 3 September 1997 (1997-09-03) the whole document & JP 09 094486 A (KYORITSU GOKIN SEISAKUSHO KK) 8 April 1997 (1997-04-08) cited in the application	1-11
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

26 April 2004

Date of mailing of the international search report

07/05/2004

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PCT/JP 03/16137

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 1 046 426 A (LECHLER GMBH & CO KG) 25 October 2000 (2000-10-25) column 3 -column 4; figures & JP 2000 334335 A (LECHLER GMBH & CO KG) 5 December 2000 (2000-12-05) cited in the application ----	1-11
A	DE 29 27 737 B (LECHLER GMBH & CO KG) 8 January 1981 (1981-01-08) the whole document ----	1-11
A	US 4 848 672 A (ASAKAWA HIROYOSHI ET AL) 18 July 1989 (1989-07-18) column 3, line 47 -column 6, line 22; figures 1,4,6,8 & JP 06 073697 B (KYORITSU GOKIN MFG) 21 April 1994 (1994-04-21) cited in the application ----	1-11
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 263124 A (NIPPON STEEL CORP;SPRAYING SYST JAPAN KK), 26 September 2000 (2000-09-26) cited in the application abstract -----	1-9

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Information on patent family members

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